



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.

WASHINGTON, D.C. 20460

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## DATA MATRIX

Date: Dec. 20, 2016	EPA Reg No./ File Symbol: 91813-6	Page 1 of 13
Applicant's/Registrant's Name and Address: UPL Delaware, Inc. 630 Freedom Business Center King of Prussia, PA 19406	Product: Clomazone Technical	
Ingredient: Clomazone (CAS No. 81777-89-1)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
<b>PRODUCT SPECIFIC</b>					
830.1550	Product identity and composition	49774201	UPL DELAWARE, INC.	OWN	
830.1600	Description of Materials Used to Produce the Product	49774201	UPL DELAWARE, INC.	OWN	
830.1620	Description of the Production Process	49774201	UPL DELAWARE, INC.	OWN	
830.1650	Description of the Formulation Process				Not applicable for technical
830.1670	Discussion of Formation of Impurities	49774201	UPL DELAWARE, INC.	OWN	
830.1700	Preliminary Analysis	49774216	UPL DELAWARE, INC.	OWN	
830.1750	Certified Limits	49774201	UPL DELAWARE, INC.	OWN	
830.1800	Enforcement Analytical Method	49774202	UPL DELAWARE, INC.	OWN	
830.6302	Color	49774203	UPL DELAWARE, INC.	OWN	
830.6303	Physical State	49774203	UPL DELAWARE, INC.	OWN	
830.6304	Odor	49774203	UPL DELAWARE, INC.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals and Metal Ions	49774204	UPL DELAWARE, INC.	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility				Not applicable: does not contain oxidizing or reducing agents
830.6315	Flammability	49774207	UPL DELAWARE, INC.	OWN	
830.6316	Explodability				Waiver. Does not contain explosive materials.
830.6317	Storage Stability	49774205	UPL DELAWARE, INC.	OWN	
830.6319	Miscibility				Not applicable for TGAI
830.6320	Corrosion Characteristics	49774205	UPL DELAWARE, INC.	OWN	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6321	Dielectric Breakdown Voltage				Not applicable for TGAI
830.7000	pH	49774209	UPL DELAWARE, INC.	OWN	
830.7050	UV/Visible Absorption	49774206	UPL DELAWARE, INC.	OWN	
830.7100	Viscosity	49774210	UPL DELAWARE, INC.	OWN	
830.7200	Melting Point/Melting Range				Not applicable: liquid
830.7220	Boiling Point/Boiling Range	49774211	UPL DELAWARE, INC.	OWN	
830.7300	Density/Relative Density/Bulk Density	49774208	UPL DELAWARE, INC.	OWN	
830.7370	Dissociation Constant in Water	49774212	UPL DELAWARE, INC.	OWN	
830.7520	Particle size, fiber length, and diameter distribution				Not applicable. TGAI is not a fibrous material or water-insoluble
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	49774213	UPL DELAWARE, INC.	OWN	
830.7560	Partition Coefficient (n-octanol/water), Generator Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility	49774214	UPL DELAWARE, INC.	OWN	
830.7860	Water Solubility: Generator Column Method				See 830.7840
830.7950	Vapor Pressure	49774215	UPL DELAWARE, INC.	OWN	
870.1100	Acute oral toxicity – rat	49774217	UPL DELAWARE, INC.	OWN	
870.1200	Acute dermal toxicity – rat	49774218	UPL DELAWARE, INC.	OWN	
870.1300	Acute inhalation toxicity – rat	49774219	UPL DELAWARE, INC.	OWN	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.2400	Eye irritation	49774220	UPL DELAWARE, INC.	OWN	
870.2500	Skin irritation	49774221	UPL DELAWARE, INC.	OWN	
870.2600	Skin sensitization	49774222	UPL DELAWARE, INC.	OWN	
GENERIC DATA					
850.2100	Acute Avian Oral Toxicity	00116611 (AC248475) 00117420 (AC248475)		OLD  OLD	See endnote <sup>1</sup>
850.2200	Acute Avian Dietary Toxicity	00117421 (AC248475) 00116612 (AC248475)		OLD  OLD	See endnote <sup>2</sup>
850.2400	Wild Mammal Toxicity				Not required / See 870 Series data requirements
850.2300	Avian Reproductive Toxicity	45178101		OLD	See endnote <sup>3</sup>
850.2500	Simulated or Actual Field Testing				Not required
850.1075	Freshwater Fish Toxicity	00116613 (AC248475) 00116614 (AC248475)		OLD  OLD	See endnote <sup>4</sup>
850.1010	Freshwater Invertebrate Toxicity	00116615 (AC248475)		OLD	See endnote <sup>5</sup>

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Ingredient: Clomazone (CAS No. 81777-89-1)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1025, 850.1035, 850.1045, 850.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	00159888 (AC263081) 00159887 (AC263080) 00155246 (AC260723)		OLD OLD OLD	See endnote <sup>6</sup>
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	00153187 (AC073997) 00142905 (AC073616)		OLD OLD	See endnote <sup>7</sup>
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)				Not required <sup>8</sup>
850.1400	Fish Early Life Stage (Freshwater)	00146230 (AC73671) 00152881 (AC073830)		OLD OLD	See endnote <sup>9</sup>
850.1400	Fish Early Life Stage (Saltwater)				Not required <sup>10</sup>
850.1500	Life Cycle Fish				Not required
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	00142660 00142661		OLD OLD	
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Not required
850.1740	Whole Sediment: Acute Marine Invertebrates				Not required

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine				Not required
850.3020	Honey Bee Acute Contact Toxicity	45178102		OLD	See endnote <sup>11</sup>
850.3030	Honeybee Toxicity of Residues on Foliage				Not required
850.3040	Field Testing for Pollinators				Not required
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat				Waived
870.3100	90-Day Oral: Rodent	00132586		OLD	See endnote <sup>12</sup>
870.3150	90-Day Oral: Non-Rodent	00150290		OLD	See endnote <sup>13</sup>
870.3200	21/28-Day Dermal Toxicity	46021101	FMC Corporation	PAY	See endnote <sup>14</sup>
870.3250	90-Day Dermal Toxicity				Not required/See 870.3200
870.3465	90-Day Inhalation Toxicity				Not required
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity				Waived
870.4100	Chronic Oral Rodent	00132586		OLD	See endnote <sup>15</sup>
870.4200	Carcinogenicity	00132586 00132585 00132587 00144244		OLD OLD OLD OLD	See endnote <sup>16</sup>
870.3700	Reproduction/Developmental Toxicity Screening Test	00150291 00133220		OLD OLD	See endnote <sup>17</sup>
870.3800	2-Generation Reproduction: Rat	00151108		OLD	See endnote <sup>18</sup>
870.6300	Developmental Neurotoxicity Study				Not required

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870.5100	Bacterial Reverse Mutation Test	00150292		OLD	See endnote <sup>19</sup>
870.5300, 830.5375	<i>In vitro</i> Mammalian Cell Assay	00133222		OLD	See endnote <sup>20</sup>
870.5385, 870.5395, 870.5450; 870.5550	<i>In vivo</i> Cytogenetics and Other Effects	00133223		OLD	See endnote <sup>21</sup>
870.7485	Metabolism and Pharmacokinetics	00142233 00142234		OLD OLD	See endnote <sup>22</sup>
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration				Not required
870.7800	Immunotoxicity				Waived
875.1100	Dermal Exposure – Outdoor		AHETF	OWN	See endnote <sup>23</sup>
875.1200	Dermal Exposure - Indoor				Not required
875.1300	Inhalation Exposure – Outdoor		AHETF	OWN	See endnote <sup>23</sup>
875.1400	Inhalation Exposure - Indoor				Not required
875.1500	Biological Monitoring				Not required
875.1600	Data Reporting and Calculations				Not required
875.1700	Product Use Information				Not required
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues				Not required
875.2200	Soil Residue Dissipation		ORETF / ARTF	OWN	See endnote <sup>24</sup>
875.2400	Dermal Exposure		ORETF / ARTF	OWN	See endnote <sup>24</sup>
875.2500	Inhalation Exposure		ORETF / ARTF	OWN	See endnote <sup>24</sup>
875.2600	Biological Monitoring				Not required

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2700	Product Use Information				Not required
875.2800	Descriptions of Human Activity				Not required
875.2900	Data Reporting and Calculations				Not required
875.3000	Nondietary Ingestion Exposure				Not required
201-1	Droplet Size Spectrum		SDTF	OWN	See endnote <sup>25</sup>
202-1	Droplet Size Spectrum		SDTF	OWN	See endnote <sup>25</sup>
850.4100	Tier 1: Seedling Emergence	41557501 42165705 45397701		OLD OLD OLD	See endnote <sup>26</sup>
850.4150	Tier 1: Vegetative Vigor	42165706 45104801 45189001		OLD OLD OLD	See endnote <sup>27</sup>
850.4400, 850.5400	Tier 1: Aquatic Plant Growth	44994803 44924901 44994801 41557502 44994802		OLD OLD OLD OLD OLD	See endnote <sup>28</sup>
850.4100	Tier 2: Seedling Emergence	41557501 42165705 45397701		OLD OLD OLD	See endnote <sup>29</sup>
850.4150	Tier 2: Vegetative Vigor	42165706 45104801 45189001		OLD OLD OLD	See endnote <sup>30</sup>

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850.4400, 850.5400	Tier 2: Aquatic Plant Growth	44994803 44924901 44994801 41557502 44994802		OLD OLD OLD OLD OLD	See endnote <sup>31</sup>
850.4300	Terrestrial Field	00116616 (AC248475)		OLD	
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
850.4550	Cyanobacteria Toxicity	44924901		OLD	See endnote <sup>32</sup>
835.2120	Hydrolysis	00116617 (AC248476)		OLD	
835.2240	Photodegradation in Water	00146233 (AC073672) 00146236 (AC073672)		OLD  OLD	
835.2410	Photodegradation in Soil	00142250 00146234 00146236		OLD OLD OLD	
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	00116618 (AC248476) 00142252 00144196		OLD  OLD OLD	

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835.4200	Anaerobic Soil Metabolism	00142252 00142253		OLD OLD	
835.4300	Aerobic Aquatic Metabolism	44348403		OLD	
835.4400	Anaerobic Aquatic Metabolism	44348404 44348405		OLD OLD	
835.1230	Leaching/Adsorption/Desorption	00116619 00116620 00142251		OLD OLD OLD	
835.1410	Volatility – Laboratory	00142254 00142255 00142256 00161441 43749501 45199401 47928508 49709401	FMC Corporation FMC Corporation	OLD OLD OLD OLD OLD OLD PAY PAY	
835.8100	Volatility – Field	40147402 43749502 43749503 47835602 47928509	FMC Corporation FMC Corporation	OLD OLD OLD PAY PAY	
835.6100	Soil Field Dissipation Study	00142258 00146231 44348408		OLD OLD OLD	

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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.6200	Aquatic Sediment Field Dissipation Study	44348406 45720601	FMC Corporation	OLD PAY	
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required
850.6100	Environmental Chemistry Methods	00162048 00162049 44348407		OLD OLD OLD	
860.1300	Nature of the Residue: Plants	40123601 40123602 41663301 41663302 41663303 42062301 42219601 42159001 42162401 44297602		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1300	Nature of the Residue: Livestock	40070001 41663304 41663305		OLD OLD OLD	
860.1850	Confined Rotational Crops				Not required

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860.1340	Residue Analytical Methods	00162050 40880901 41663306 41725102 42178101 42325302 44151302		OLD OLD OLD OLD OLD OLD OLD	
860.1360	Multiresidue Method	42325301		OLD	
860.1380	Storage Stability	40633301 42165704 44910404		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: asparagus	49592201	IR-4	PUBLIC	
860.1500	Magnitude of the Residue in Plants: brassica (head and stem subgroup 5A)	43077301 49026901	IR-4 IR-4	OLD PUBLIC	
860.1500	Magnitude of the Residue in Plants: cotton	42165701 42165702 43614903 43614904 44151301 44441401		OLD OLD OLD OLD OLD OLD	

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860.1500	Magnitude of the Residue in Plants: cucurbit vegetables (crop group 9)	40224801 41380101 43221201 43276001 44319001 44319002		OLD OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: peas	49026903	IR-4	PUBLIC	
860.1500	Magnitude of the Residue in Plants: peppermint/spearmint	45587001	IR-4	PUBLIC	
860.1500	Magnitude of the Residue in Plants: peppers	41179401 44441403 44441404		OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: rice	44348401 47825601	FMC Corporation	OLD PAY	
860.1500	Magnitude of the Residue in Plants: rhubarb	49026902	IR-4	PUBLIC	
860.1500	Magnitude of the Residue in Plants: snap beans (succulent)	43687701		OLD	
860.1500	Magnitude of the Residue in Plants: soybeans, including immature soybeans (edamame)	00132386 43614901 43614902 44132001 44441402		OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: sugarcane	44910402 44910403		OLD OLD	

Signature	Name and Title Rebecca A. Clemmer, Regulatory Manager	Date Dec. 20, 2016
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## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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WASHINGTON, D.C. 20460

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## DATA MATRIX

Date: Dec. 20, 2016	EPA Reg No./ File Symbol: 91813-6	Page 13 of 13
Applicant's/Registrant's Name and Address: UPL Delaware, Inc. 630 Freedom Business Center King of Prussia, PA 19406	Product: Clomazone Technical	
Ingredient: Clomazone (CAS No. 81777-89-1)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: tuberous and corm vegetables (subgroup 1D)	40572701 44441405		OLD OLD	
860.1500	Magnitude of the Residue in Plants: tobacco	42159002 42162402 44297601		OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: cotton	42165703		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: mint	45587001	IR-4	PUBLIC	
860.1520	Magnitude of the Residue in Processed Food or Feed: rice	44348402		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: soybeans	00132386 43614901 43614902 44132001 44441402		OLD OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: sugarcane	44910403		OLD	
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs				Not required
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish				Not required
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required

Signature	Name and Title Rebecca A. Clemmer, Regulatory Manager	Date Dec. 20, 2016
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## DATA MATRIX

Date: Dec. 20, 2016	EPA Reg No./ File Symbol: 91813-6	Page 2 of 13
Applicant's/Registrant's Name and Address: UPL Delaware, Inc. 630 Freedom Business Center King of Prussia, PA 19406	Product: Clomazone Technical	
Ingredient: Clomazone (CAS No. 81777-89-1)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required
860.1900	Field Rotational Crops				Not required

Signature	Name and Title Rebecca A. Clemmer, Regulatory Manager	Date Dec. 20, 2016
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## Endnotes for Data Matrix for UPL Clomazone Technical

<sup>1</sup> **850.2100** – The studies cited were classified as acceptable in the March 10, 2009 Registration Review Ecological Risk Assessment and Effects Determination: Clomazone (Ecological RA). No passerine data have been submitted for clomazone, but the EPA did not identify it as a data gap in the Ecological RA and therefore, UPL Delaware, Inc. understands that these data are not required for clomazone due to its lack of toxicity to birds.

<sup>2</sup> **850.2200** – The studies cited were classified as acceptable in the Ecological RA and no further data were required.

<sup>3</sup> **850.2300** – The study cited was classified as acceptable in the Ecological RA and no further data were required despite no mallard data being submitted.

<sup>4</sup> **850.1075** – The studies cited were classified as acceptable in the Ecological RA and no further data were required.

<sup>5</sup> **850.1010** – The study cited was classified as acceptable in the Ecological RA and no further data were required.

<sup>6</sup> **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited were classified as acceptable in the Ecological RA and no further data were required.

<sup>7</sup> **850.1300** – The studies cited were classified as acceptable in the Ecological RA and no further data were required.

<sup>8</sup> **850.1350** – These data were not required in Registration Review and the Ecological RA stated that EPA extrapolated the values using ACR. Therefore, no data are cited here.

<sup>9</sup> **850.1400** – The studies cited were classified as supplemental in the Ecological RA, but no further data were required.

<sup>10</sup> **850.1400** – These data were not required in Registration Review and the Ecological RA stated that EPA extrapolated the values using ACR. Therefore, no data are cited here.

<sup>11</sup> **850.3020** – The study cited was classified as acceptable in the Ecological RA and no further data were required.

<sup>12</sup> **870.3100** – The study cited was classified as acceptable in Appendix B of the Ecological RA as well as the Jan. 31, 2001 Clomazone – Report of the Hazard Identification Assessment Review Committee (HIARC Report) and no further data were required.

<sup>13</sup> **870.3150** – A subchronic dog study is not available. However, a chronic dog study is available and was classified as acceptable in Appendix B of the Ecological RA and no further data were required.

<sup>14</sup> **870.3200** – The study cited was classified as acceptable in Appendix B of the Ecological RA and no further data were required.

<sup>15</sup> **870.4100** – The study cited was classified as acceptable in Appendix B of the Ecological RA as well as the HIARC Report and no further data were required.

<sup>16</sup> **870.4200** – MRID 00132586 (rat chronic/carcinogenicity study) was classified as acceptable in Appendix B of the Ecological RA as well as the HIARC Report and no further data were required. Although MRID numbers 00132585, 00132587 and 00144244 were classified as unacceptable in Appendix B of the Ecological RA as well as the HIARC Report, no further data were required. As such, these studies are cited to satisfy the data requirement.

<sup>17</sup> **870.3700** – The studies cited were classified as acceptable in Appendix B of the Ecological RA as well as the HIARC Report and no further data were required.

<sup>18</sup> **870.3800** – The study cited was classified as acceptable in Appendix B of the Ecological RA as well as the HIARC Report and no further data were required.

<sup>19</sup> **870.5100** – The study cited was classified as acceptable in Appendix B of the Ecological RA as well as the HIARC Report and no further data were required.

<sup>20</sup> **870.5300, 870.5375** – The study cited was classified as acceptable in Appendix B of the Ecological RA as well as the HIARC Report and no further data were required.

<sup>21</sup> **870.5385, 870.5395, 870.5450, 870.5550** – The study cited was classified as acceptable in Appendix B of the Ecological RA as well as the HIARC Report and no further data were required.

<sup>22</sup> **870.7485** – The studies cited were classified as acceptable in Appendix B of the Ecological RA and no further data were required.

<sup>23</sup> **875.1100, 875.1300** – UPL Delaware, Inc. is a licensee in good standing with the Agricultural Handler Exposure Task Force.

<sup>24</sup> **875.2200, 875.2400, 875.2500** – UPL Delaware, Inc. is a member in good standing with the Outdoor Residential Exposure Task Force and the Agricultural Re-Entry Task Force.

<sup>25</sup> **201-1, 202-1** – UPL Delaware, Inc. is a member in good standing with the Spray Drift Task Force.

<sup>26</sup> **850.4100** – The studies cited were classified as acceptable in the Ecological RA and no further data were required. Note: MRID 45397701 was classified as supplemental for tomato and lettuce (acceptable for other species), but no additional data were required.

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<sup>27</sup> **850.4150** – According to the Ecological RA, there were no scientifically sound vegetative vigor studies, but no new data have been submitted or were required. Therefore, the previously submitted vegetative vigor studies, which appear to be summarized in the Ecological RA, are cited here.

<sup>28</sup> **850.4400, 850.5400** – The studies cited were classified as acceptable in Appendix B of the Ecological RA and no further data were required.

<sup>29</sup> **850.4100** – The studies cited were classified as acceptable in the Ecological RA and no further data were required. Note: MRID 45397701 was classified as supplemental for tomato and lettuce (acceptable for other species), but no additional data were required.

<sup>30</sup> **850.4150** – According to the Ecological RA, there were no scientifically sound vegetative vigor studies, but no new data have been submitted or were required. Therefore, the previously submitted vegetative vigor studies, which appear to be summarized in the Ecological RA, are cited here.

<sup>31</sup> **850.4400, 850.5400** – The studies cited were classified as acceptable in Appendix B of the Ecological RA and no further data were required.

<sup>32</sup> **850.4550** – The study cited was classified as acceptable in Appendix B of the Ecological RA and no further data were required.